ABSTRACT

A controllable inductor, comprising first and second coaxial and concentric pipe elements, where said elements are connected to one another at both ends by means of magnetic end couplers, a first winding wound around both said elements, and a second winding wound around at least one of said elements, where the winding axis for the first element is perpendicular to the elements' axes and the winding axis of the second winding coincides with the elements' axes, characterized in that said first and second magnetic elements are made from anisotropic magnetic material such that the magnetic permeability in the direction of a magnetic field introduced by the first of said windings is significantly higher than the magnetic permeability in the direction of a magnetic field introduced by the second of said windings.